

**We claim:**

1. A composition comprising a bioactive fraction obtained from fruits of *Cinnamomum zeylanicum* having
  - 5 Moisture: 4-6%
  - Color: Greenish white
  - Flavor: Mild salty flavoroptionally along with one or more pharmaceutically acceptable additives.
- 2 A composition as claimed in claim 1, wherein the bioactive fraction is a hexane extract obtained from the fruits of *Cinnamomum zeylanicum*.
- 10 3 A composition as claimed in claim 1, wherein the composition has antibacterial activity against gram positive and gram negative bacterial in the range of 200-500 ppm.
- 4 A composition as claimed in claim 1, wherein the composition has 15 antibacterial activity against *Bacillus cereus*, *Bacillus subtilis*, *Bacillus coagulans*, *Pseucomonas aeruginosa*, *Staphylococcus aureus*.
- 5 Use of a bioactive fraction obtained from fruits of *Cinnamomum zeylanicum* having
  - 20 Moisture: 4-6%
  - Color: Greenish white
  - Flavor: Mild salty flavoras an antibacterial agent.
- 6 Use as claimed in claim 5, wherein the bioactive fraction is a hexane extract obtained from the fruits of *Cinnamomum zeylanicum*.
- 25 7 Use as claimed in claim 5, wherein the bioactive fraction has antibacterial activity against gram positive and gram negative bacterial in the range of 200-500 ppm.
- 8 Use as claimed in claim 5, wherein the bioactive has antibacterial activity against *Bacillus cereus*, *Bacillus subtilis*, *Bacillus coagulans*, *Pseucomonas aeruginosa*, *Staphylococcus aureus*.
- 30 9. A process for preparing antibacterial bioactive fraction having  
Moisture: 4-6%

Color: Greenish white  
Flavor: Mild salty flavor  
from the unconventional parts of *Cinnamomum zeylanicum*, said process comprising the steps of :

- 5           (a) extracting the powdered fruits of *Cinnamomum zeylanicum* with an organic solvent at a temperature in the range of 55-60°C for a time period in the range of 60-80 mesh.
- 10          (b) filtering and concentrating the solvent obtained in step (a) to obtain a concentrate and to recover upto 90% of the solvent;
- 10          (c) drying the concentrate obtained in step (b) in a vacuum oven at 40-50°C under vacuum at 10-25 mm of mercury to obtain the antibacterial bioactive fraction.
10.         A process as claimed in claim 9 wherein the organic solvent used is hexane.
11.         A process as claimed in claim 10 wherein the yield of hexane extract is about 15         1.5 to 3.0%.
12.         A process as claimed in claim 9 wherein the filtration is carried out by conventional methods.
13.         A process as claimed in claim 9 wherein the concentration temperature is of 55 – 60°C.
- 20         14. A process as claimed in claim 9 wherein the antibacterial bioactive fraction thus obtained has antibacterial activity against gram positive and gram negative bacterial in the range of 200-500 ppm.